TALOS

# User's Manual

# ITR-CS15D

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# Safety Statement for Lithium Battery

**CAUTION**
**RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCOORECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS**

**TALOS INTEGRATED TECHNOLOGIES**
**411 BRADWICK DR. UNIT# 11**
**VAUGHAN, ONTARIO L4K 2P4**

# Regulatory Information

## FCC Notices

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# 1.

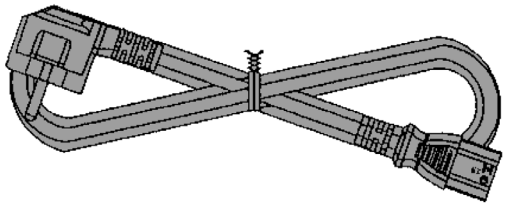
# Hardware Setup

## 1.1. Packing Contents

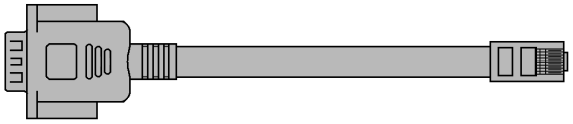
1. TALOS ITR-CS15D X 1

2. Power Adapter X 1

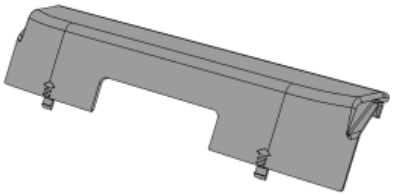
3. Power Cord X 1



4. RJ50 to DB9 COM port adapter cable X 1



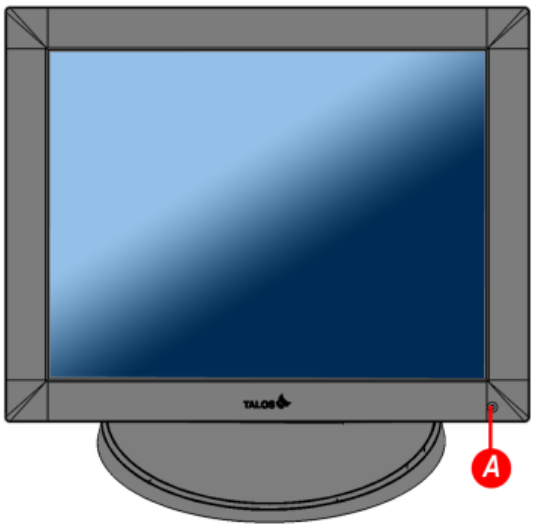
5. IO/Cable Cover X 1



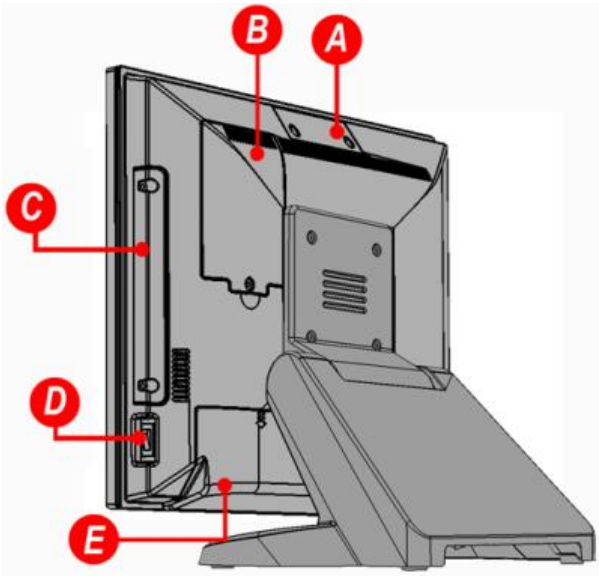
6. Drive and Utility DVD X 1

## 1.2. Quick Tour

### Front View and Side View

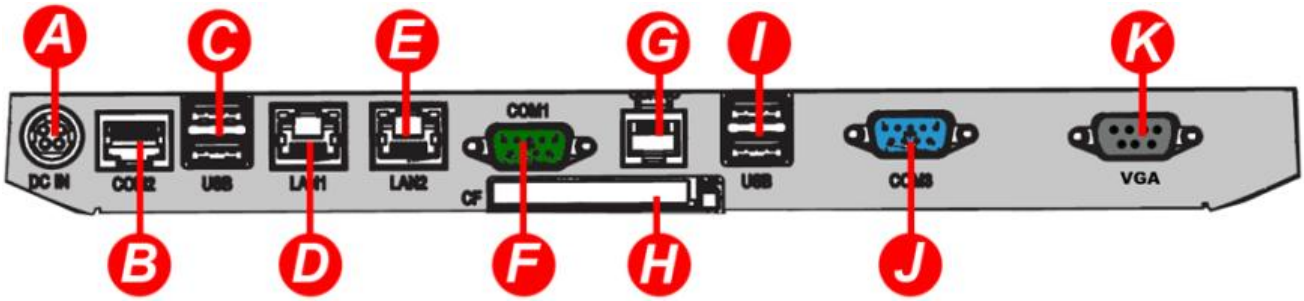



| | | |
|---|---|---|
| ***A.*** | | The **LED** indicator will glow green when power is on. |
| | | The **LED** indicator will blink red when the HDD is accessed. |




| | | | |
|---|---|---|---|
| ***A.*** | Customer Display mounting hole cover | ***D.*** | Power switch |
| ***B.*** | HDD tray | ***E.*** | I/O cover |
| ***C.*** | MSR cover | | |

### Back Panel I/O



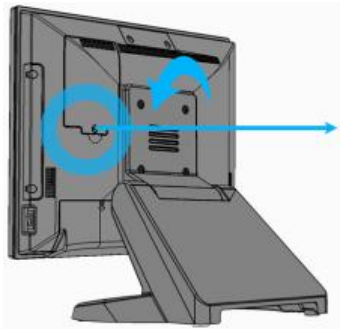

| | | | |
|---|---|---|---|
| ***A.*** | DC in | ***G.*** | CD/DIO (for cash drawer) |
| ***B.*** | COM 2 (10-pin RJ -50)* | ***H.*** | CF card slot |
| ***C.*** | USB 1/2 | ***I.*** | USB 3/4 |
| ***D.*** | LAN 1 | ***J.*** | COM3 |
| ***E.*** | LAN 2 | ***K.*** | VGA |
| ***F.*** | COM1 | | |

**CAUTION**

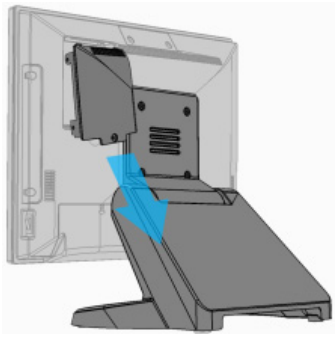
*** Note: Please use 10-pin RJ50 connector, 8-pin RJ45 is incompatible.**

## 1.3. HDD Replacement

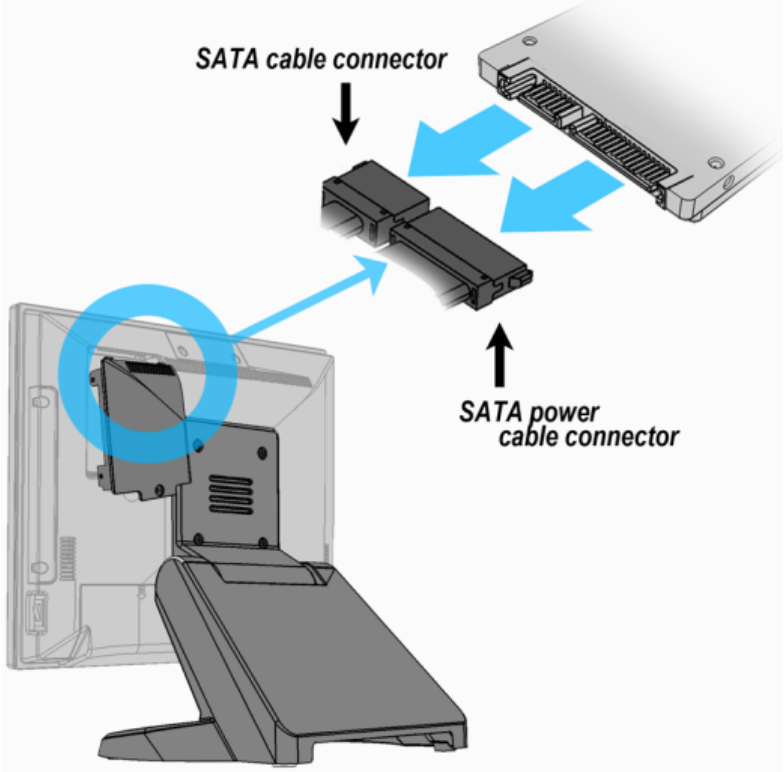
1. Loosen and remove the screws fixing the HDD tray.



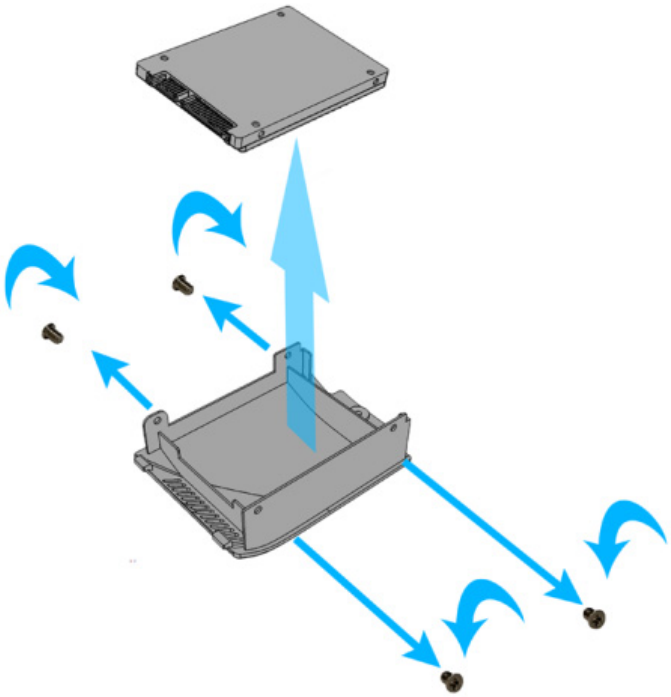
2. Pull out the HDD tray slightly and softly.



3. Disconnect the SATA cable connector and the SATA power cable connector.



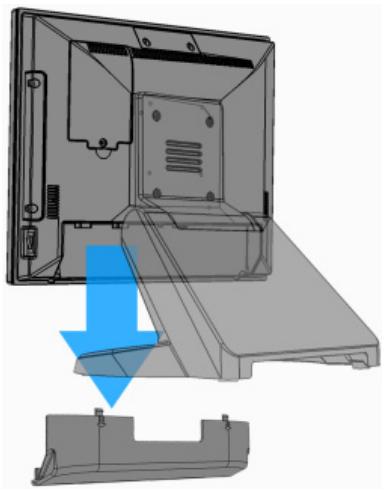

4. Loosen and remove the four screws fixing the HDD, and then remove the HDD from the HDD tray.



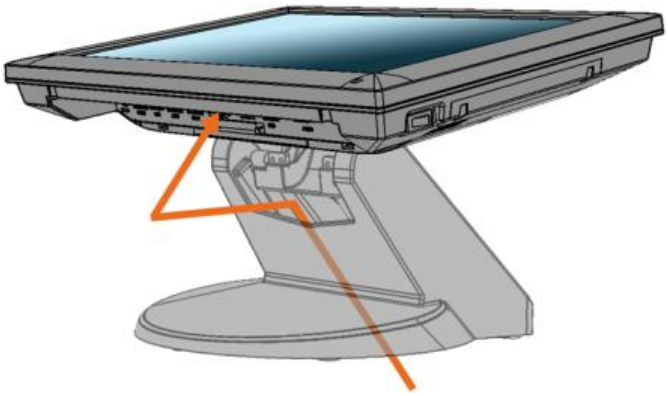
5. Install the new HDD onto the device in reverse order.

## 1.4. Basic Peripherals Installation

1. Remove the IO panel cover from the device.



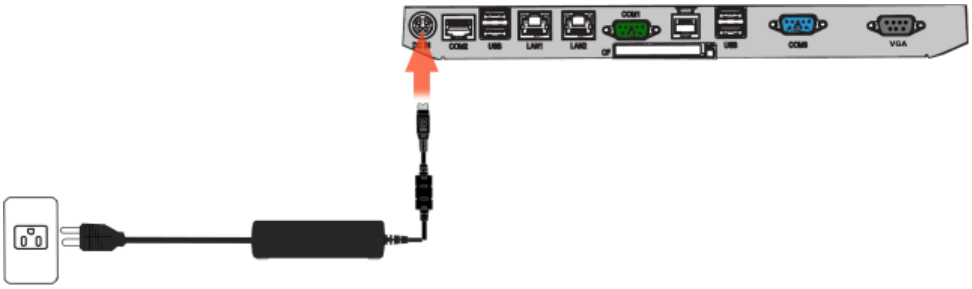
2. All cables and wires from peripherals to the POS device are recommended to be fed through the base in the direction as shown below.



| | WARNING | |
|---|---|---|
| Before the cable cover is removed, please make sure the power is off. | | |

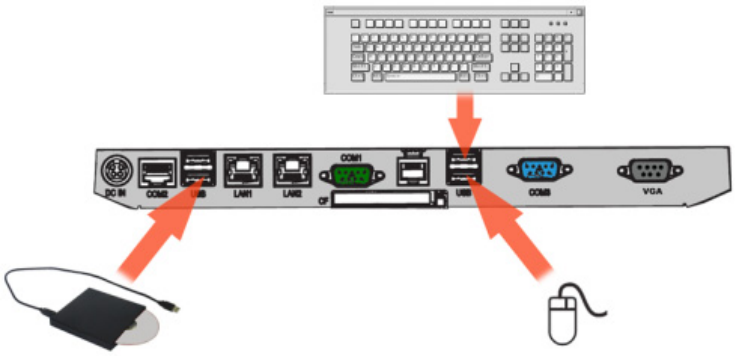
### Power Adapter

Connect the DC cable to the DC in jack.



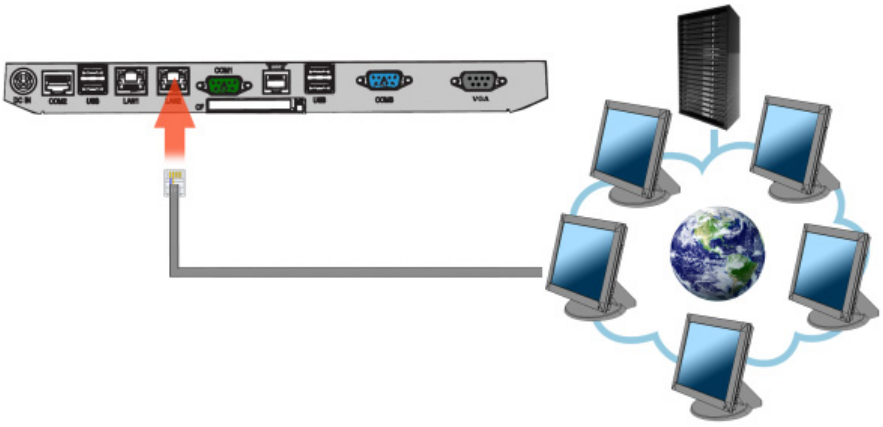
## USB Mouse, USB Keyboard and USB ODD

Connect your USB Mouse, USB Keyboard USB ODD or other USB devices to **USB 1/2** or **UBS 3/4** ports on the back panel of the device.



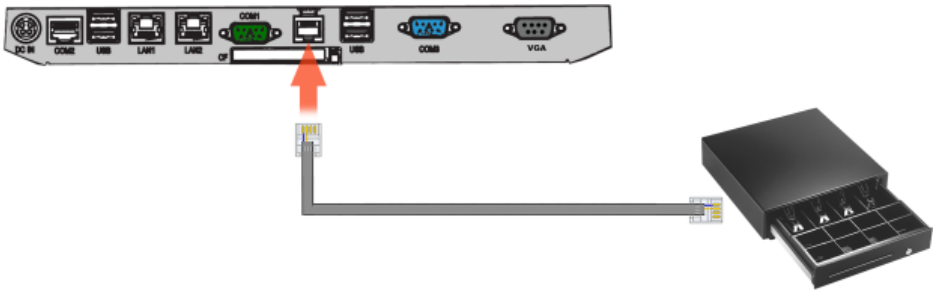
## LAN Cable

Connect one end of RJ-45 LAN cable to the **LAN 1** or **LAN 2** port on the back panel of the device, another end to your internet device.

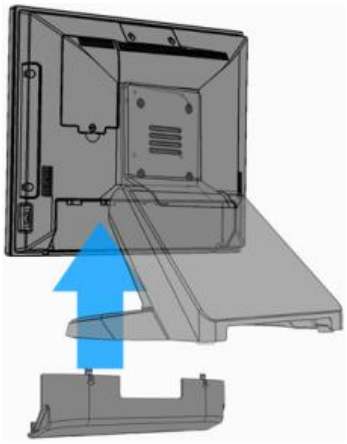


## Cash Drawer

Connect one end of RJ-11 cable to the **Cash Drawer** port on the back panel of the device, another end to your cash drawer.



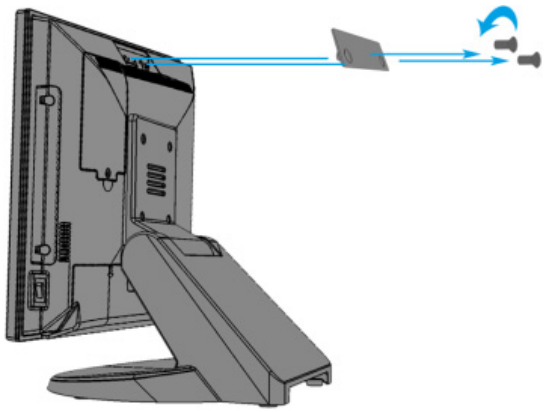
3. Install the IO panel cove.



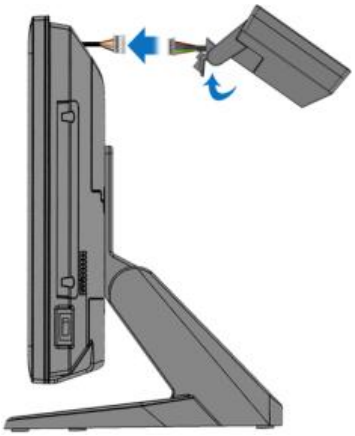
## Customer Display

**A. Hardware Installation**

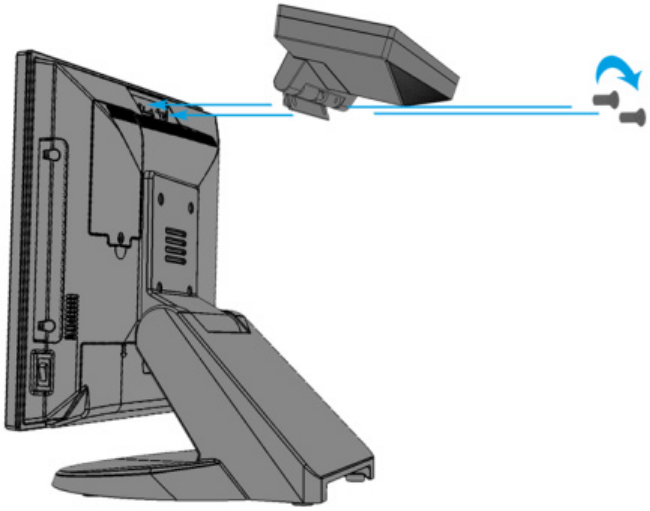
1. Remove the two screws and the VFD mounting hole cover from the device, and then pull out the connector from the device.



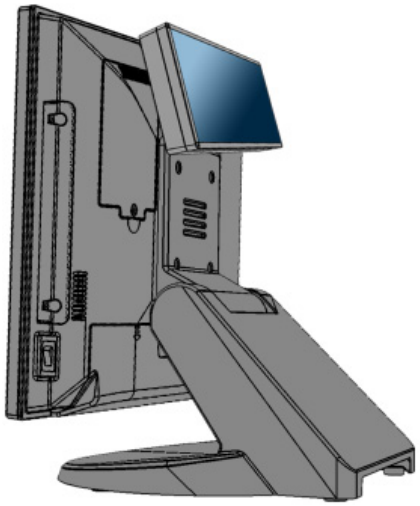
2. Adjust the hinge of the VFD, and then connect to the device as shown below.



3. Mount the VFD to the device and tighten the two M3 screws as shown below.



5. Finished.



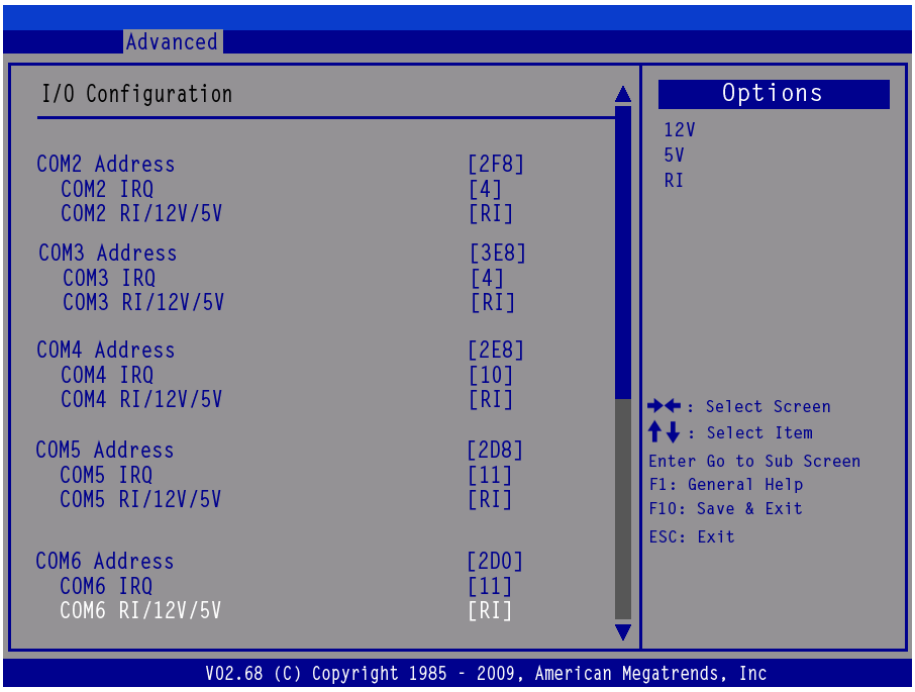
### B. Power Supply Configuration

1. Power up the TALOS **ITR-CS15D** and hit the **DEL** key to enter the BIOS. When the BIOS screen appears use the ➡ or ⬅ key on your external computer keyboard to select **Advanced**. Use the arrow keys of the external keyboard to select **IO Configuration**, and then press the **ENTER** key.

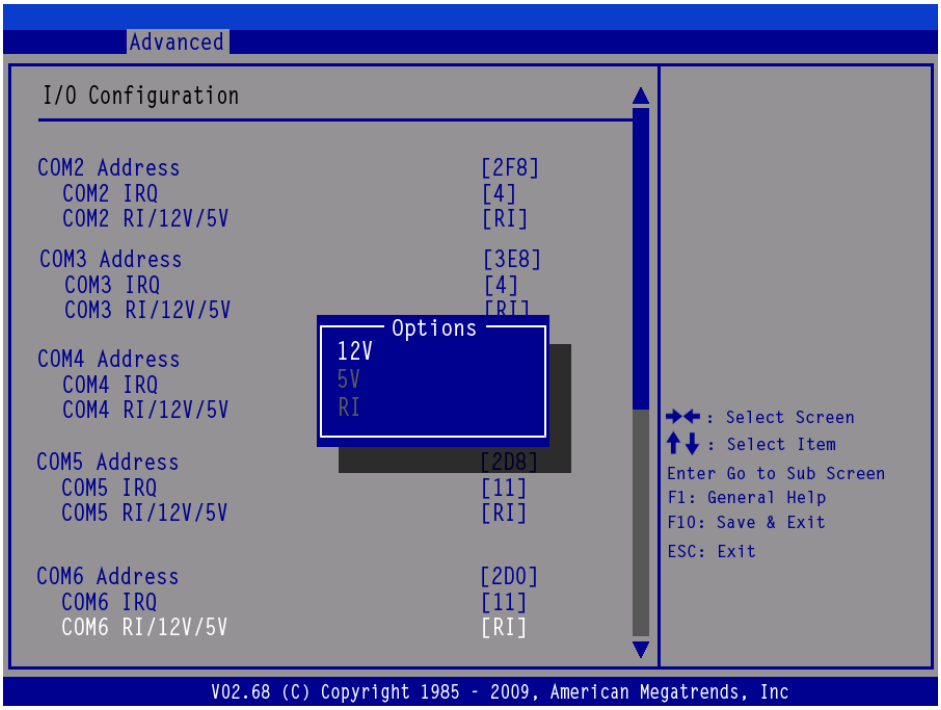
**WARNING**

**Never enable the 12V power without the customer display attached and be sure to disable the 12V power before removing the customer display.**

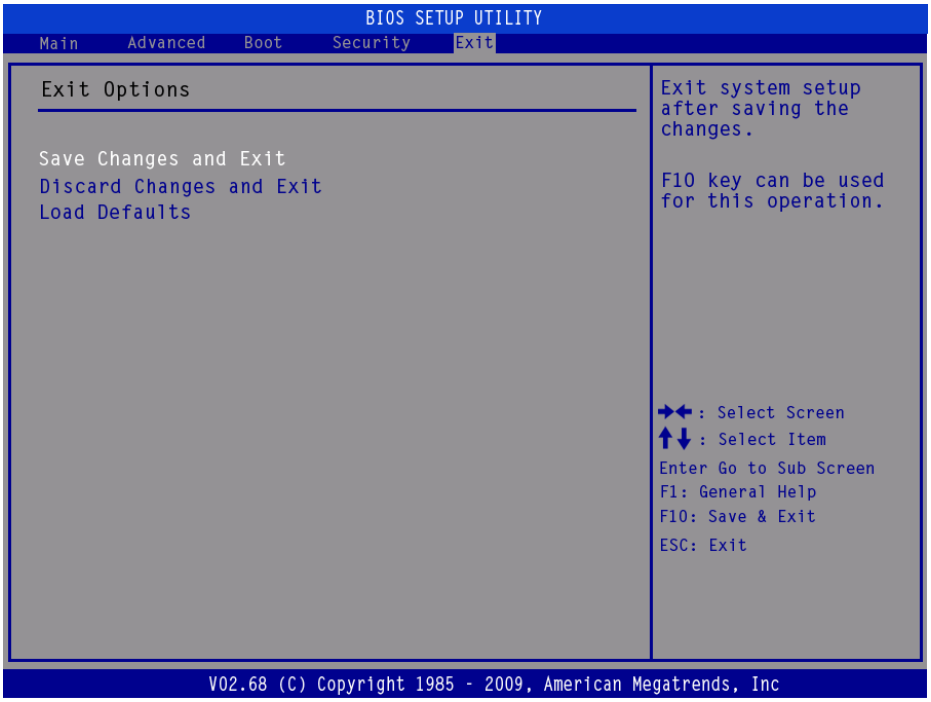
2. The screen below will appear. Use the ⬆ or ⬇ key to scroll the screen and highlight the **COM6 RI/12V/15V,** and then press the **Enter** key.



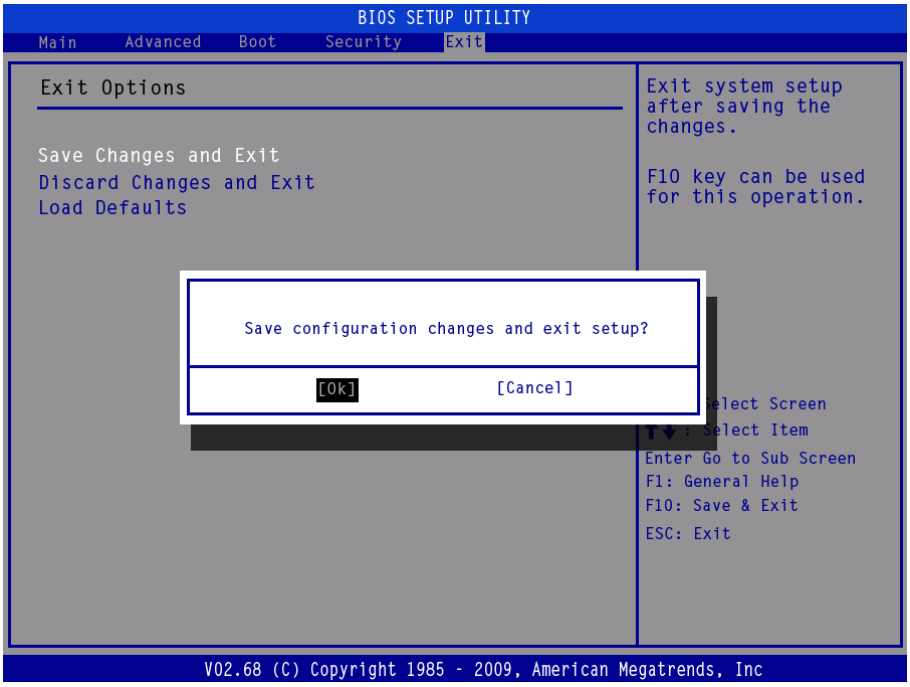

3. Highlight **12V**, and then press the **Enter** key.



4. Press the **ESC** key to return to the **BIOS SETUP UTILITY** screen of step 1, use the ➡ or ⬅ key on your external computer keyboard to select the **EXIT**.
Use the ⬆ or ⬇ key to highlight **Save Changes and Exit**.

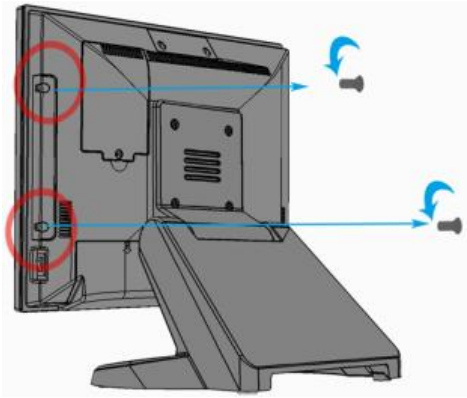

BIOS SETUP UTILITY
Main Advanced Boot Security Exit
Exit Options
Save Changes and Exit
Discard Changes and Exit
Load Defaults
Exit system setup after saving the changes.
F10 key can be used for this operation.
: Select Screen
: Select Item
Enter Go to Sub Screen
F1: General Help
F10: Save & Exit
ESC: Exit
V02.68 (C) Copyright 1985 - 2009, American Megatrends, Inc

5. Press the **Enter** key, use the ➡ or ⬅ key to highlight the **[Ok]**, press the **Enter** key again to save your voltage configuration and exit BIOS.

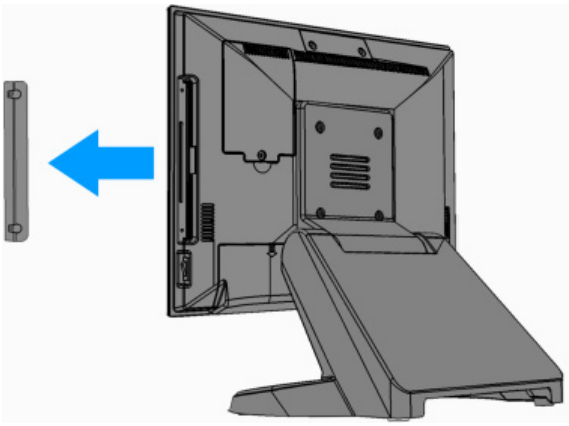

BIOS SETUP UTILITY
Main Advanced Boot Security Exit
Exit Options
Save Changes and Exit
Discard Changes and Exit
Load Defaults
Exit system setup after saving the changes.
F10 key can be used for this operation.
Save configuration changes and exit setup?
[Ok]
[Cancel]
Enter Go to Sub Screen
F1: General Help
F10: Save & Exit
ESC: Exit
V02.68 (C) Copyright 1985 - 2009, American Megatrends, Inc

## MSR

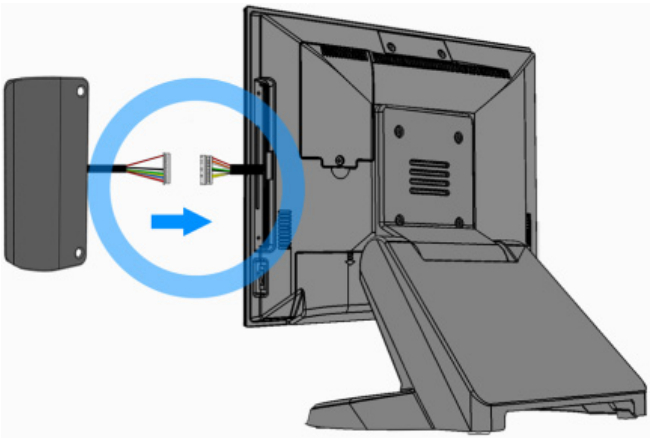
1. Remove the two screws fixing the MSR cover.



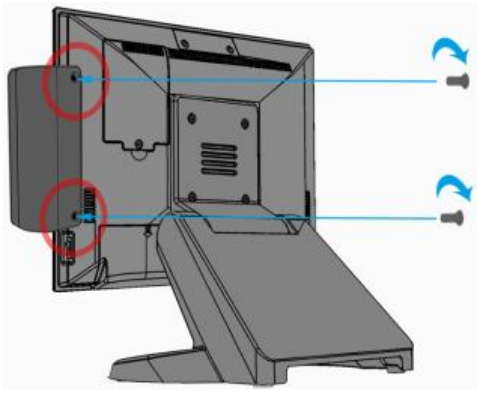
2. Remove the MSR cover from the device.



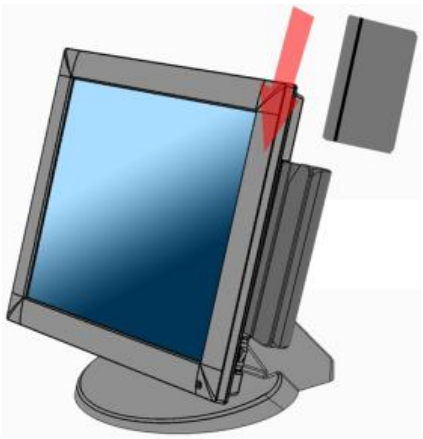
3. Connect the connectors of the MSR assembly to the device.



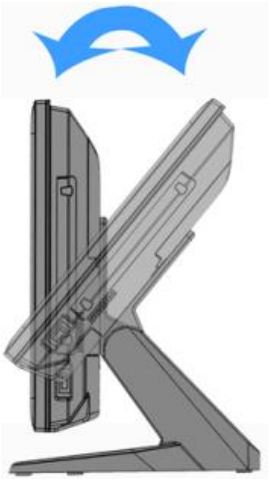
4. Tighten the two M3 screws to fix the MSR assembly as shown below.



5. Finished.

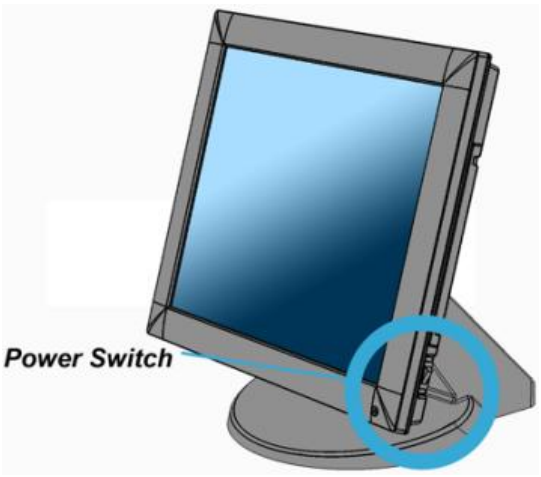


## 1.5. Adjust Angle



## 1.6. Turn on the device

1. Make sure all peripherals and cables are connected properly.
2. Press and hold the power switch until the power indicator on the front panel glows green.



# 2.

# Basic Driver Installation

## 2.1. Before the installation

1. Connect an external USB CDROM to the USB power and insert the driver CD and turn on the device. The program autoruns and displays the **Talos Integrated Technologies** main screen.

## 2.2. Chipset Software Installation

1. On the main screen, click **INTEL Chipset Driver**.

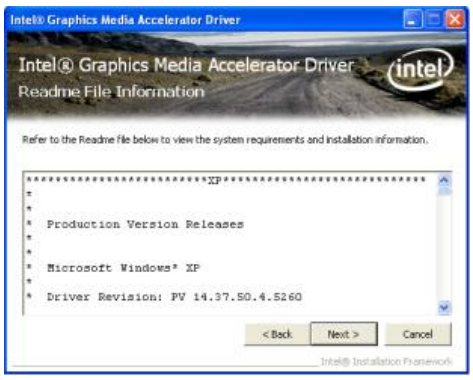
2. Click **Next**.

Intel® Chipset Device Software
Intel® Chipset Device Software
Welcome to the Setup Program
This setup program will install the Intel® Chipset Device Software onto this computer. It is strongly recommended that you exit all Windows* programs before continuing.
< Back
Next >
Cancel

3. Read the License Agreement carefully and clic **Yes**.

Intel® Chipset Device Software
Intel® Chipset Device Software
License Agreement
You must accept all of the terms of the license agreement in order to continue the setup program. Do you accept the terms?
INTEL SOFTWARE LICENSE AGREEMENT (OEM / IHV / ISV Distribution & Single User)
IMPORTANT - READ BEFORE COPYING, INSTALLING OR USING.
Do not use or load this software and any associated materials (collectively, the "Software") until you have carefully read the following terms and conditions. By loading or using the Software, you agree to the terms of this Agreement. If you do not wish to so agree, do not install or use the Software.
Please Also Note:
* If you are an Original Equipment Manufacturer (OEM), Independent Hardware Vendor (IHV), or Independent Software Vendor (ISV), this complete LICENSE AGREEMENT applies;
< Back
Yes
No

4. Click **Next**.


Intel® Graphics Media Accelerator Driver
Intel® Graphics Media Accelerator Driver
Readme File Information
Refer to the Readme file below to view the system requirements and installation information.
Production Version Releases
Microsoft Windows* XP
Driver Revision: PV 14.37.50.4.5260
< Back
Next >
Cancel

5. Click **Finish**.

Intel® Chipset Device Software
Intel® Chipset Device Software
Setup Is Complete
The setup program successfully installed the Intel® Chipset Device Software onto this computer. Click Finish to complete the setup process.
Finish

## 2.3. VGA Driver Installation

1. On the main screen, click **VGA Driver**.

2. Click the operation system according to your application.

Talos Integrated Technologies
Talos Integrated Technologies
# Driver Selection #
• VGA Driver For Windows
• VGA Driver For Windows Dual Display
• VGA Driver For Windows 7
Browse this CDROM
EXIT

3. Click **Next**.
4. Read the License Agreement carefully and click **Yes**.

Intel® Chipset Device Software
Intel® Chipset Device Software
License Agreement
You must accept all of the terms of the license agreement in order to continue the setup program. Do you accept the terms?
INTEL SOFTWARE LICENSE AGREEMENT (OEM / IHV / ISV Distribution & Single User)
IMPORTANT - READ BEFORE COPYING, INSTALLING OR USING.
Do not use or load this software and any associated materials (collectively, the "Software") until you have carefully read the following terms and conditions. By loading or using the Software, you agree to the terms of this Agreement. If you do not wish to so agree, do not install or use the Software.
Please Also Note:
* If you are an Original Equipment Manufacturer (OEM), Independent Hardware Vendor (IHV), or Independent Software Vendor (ISV), this complete LICENSE AGREEMENT applies;
< Back
Yes
No

5. Click **Next**.

6. Click **Next**.

Talos Integrated Technologies
# Driver Selection #
• VGA Driver For Windows
• VGA Driver For Windows Dual Display
• VGA Driver For Windows 7
Browse this CDROM
EXIT

7. Select restart your computer right now or later, and then lick **Finish**.

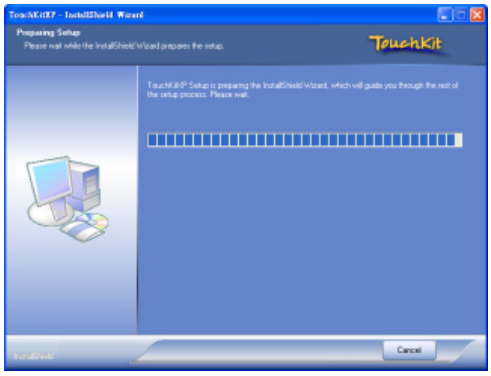
Intel® Graphics Media Accelerator Driver
Intel® Graphics Media Accelerator Driver
Setup Is Complete
intel
You must restart this computer for the changes to take effect. Would you like to restart the computer now?
Yes, I want to restart this computer now.
No, I will restart this computer later.
Click Finish, then remove any installation media from the drives.
Finish
Intel® Installation Framework

## 2.4. Touch Screen Driver and Software Utility installation

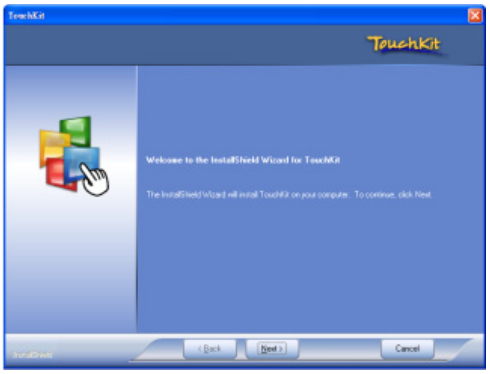
1. On the main screen, click **Touch Panel Driver**.

2. Click the operation system according to your application.

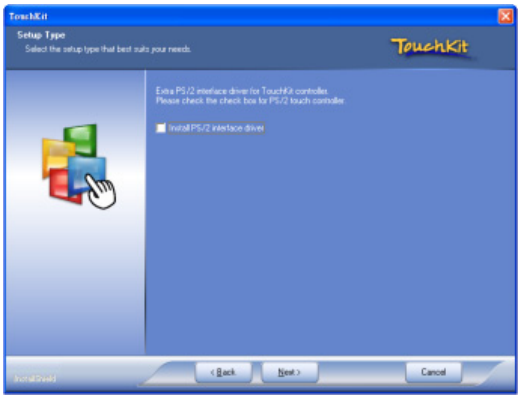
3. The procedure starts.



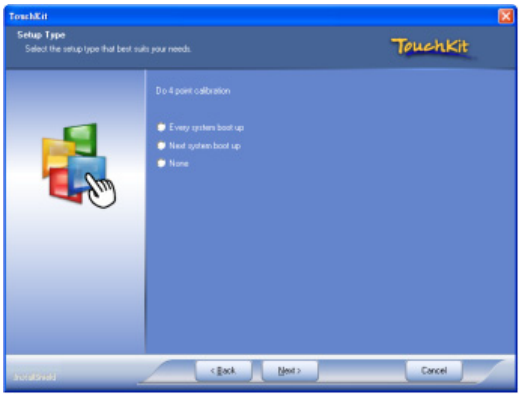
4. Click **Next**.



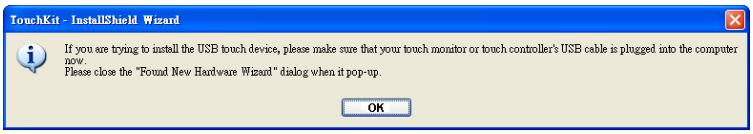
5. Check the Install PS/2 interface driver box and click **Next**.



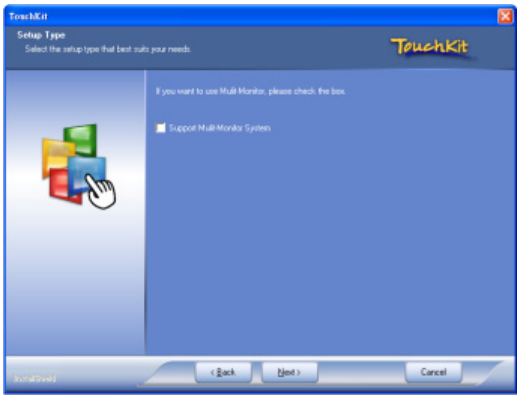
6. Select an item according to your needs, and then click **Next**.



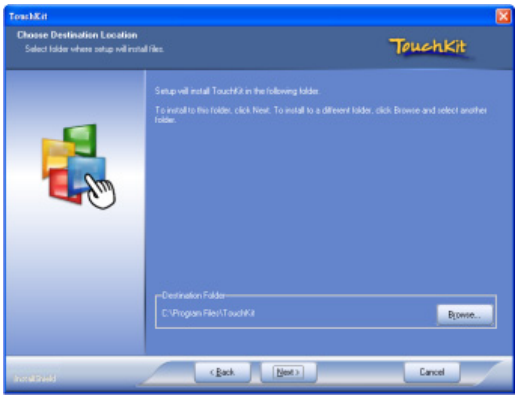
7. Click **OK**.


TouchKit - InstallShield Wizard
If you are trying to install the USB touch device, please make sure that your touch monitor or touch controller's USB cable is plugged into the computer now.
Please close the "Found New Hardware Wizard" dialog when it pop-up.
OK

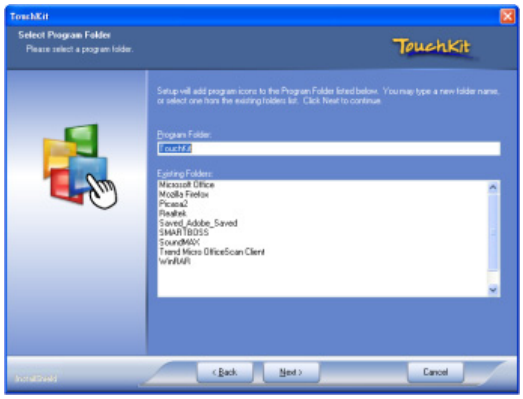
8. If you want to use Multi-Monitor, check the box and click **Next**.



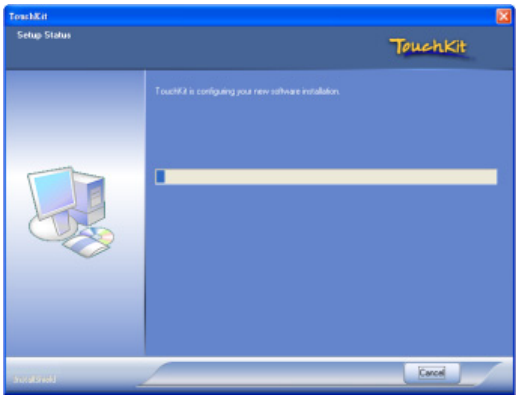
9. Click **Next**.



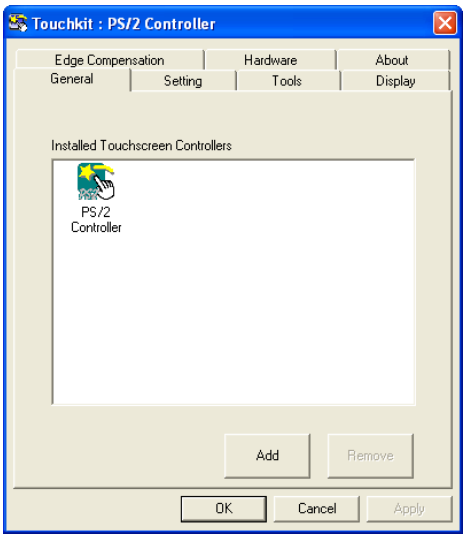
10. Click **Next**.




11. The driver starts to install.




11. Click **OK**.



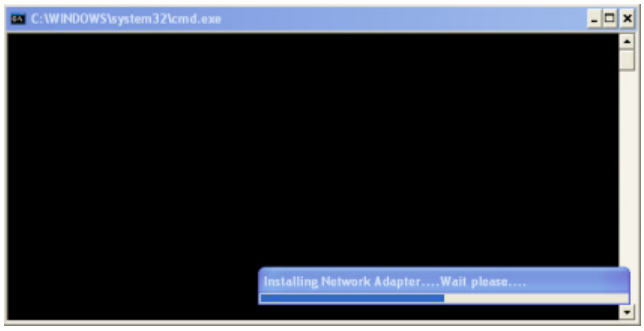

## 2.5. LAN Driver Installation

1. On the main screen, click **VIA 6130 LAN Drive**.

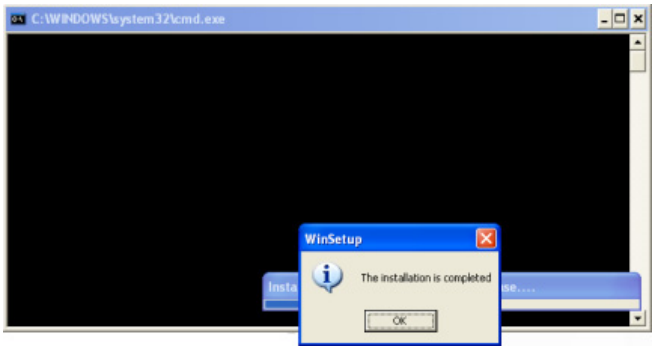
2. Click the operation system according to your application.

Talos Integrated Technologies, ITR-CS15D, Ver. 1.0 (20120503)
Talos Integrated Technologies
# Driver Selection #
• VIA 6130 Lan Driver For Windows XP 32bit
• VIA 6130 Lan Driver For Windows XP 64bit
• VIA 6130 Lan Driver For Windows 7 32bit
• VIA 6130 Lan Driver For Windows 7 64bit
Browse this CDROM
EXIT

3. The driver will be installed automatically.



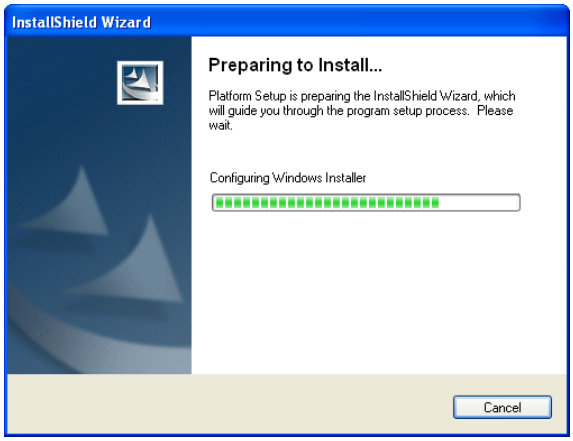

4. Click **OK** on the pop-up message box.




## 2.6. Audio Driver Installation

1. On the main screen, click **HD Audio Driver**.

2. The driver is preparing to install.


InstallShield Wizard
Preparing to Install...
Platform Setup is preparing the InstallShield Wizard, which will guide you through the program setup process. Please wait.
Configuring Windows Installer
Cancel

3. Click **Next**.

VIA HD Audio UAA Driver Setup Wizard v7.3.00.30.090715
Welcome to the Install Wizard for VIA HD Audio UAA Driver Setup Program
The Install Wizard will install VIA HD Audio UAA Driver Setup Program on your computer. To continue, click Next.
< Back
Next >
Cancel

4. Select "**I Agree**" and click **Next**.

VIA HD Audio UAA Driver Setup Wizard v7.3.00.30.090715
License Agreement
Please read the following license agreement carefully.
Press the PAGE DOWN key to see the rest of the agreement.
VIA SOFTWARE LICENSE AGREEMENT
Please read carefully before you download, install, or use any VIA SOFTWARE. VIA SOFTWARE means the software program you are currently trying to download, and all related updates supplied by VIA Technologies, Inc. ("VIA").
By clicking on the "I AGREE" button, and by downloading and installing the VIA SOFTWARE, you accept all the terms and conditions of this Agreement. If you do not agree to the terms and conditions of this Agreement, do not click the "I AGREE"
I Agree
I Don't Agree
InstallShield
< Back
Next >
Cancel

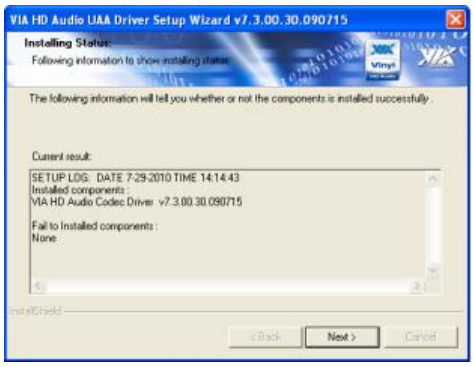
5. Check "**VIA HD Audio Codec Drive v7.300 30.090715**" box, and then click **Next**.

VIA HD Audio UAA Driver Setup Wizard v7.3.00.30.090715
Install List:
To choose the components, the Setup will install them.
You can select several or all components to install.
VIA HD Audio Codec Driver v7.3.00.30.090715
Description
Update definitions of VIA chipsets for loading proper system driver
Space Required: C: 92700 KB
Space Available: C: 154571616 KB
< Back
Next >
Cancel

6. Click **Next**.

VIA HD Audio UAA Driver Setup Wizard v7.3.00.30.090715
Installing Components List
Review setting before installing components
Setup has enough information to start installing the components. If you want to review or change any settings, click Back. If you are satisfied with the settings, click Next to begin installing components.
Current setting:
VIA HD Audio Codec Driver v7.3.00.30.090715:
Update definitions of VIA chipsets for loading proper system driver
< Back
Next >
Cancel

7. Click **Next**.


VIA HD Audio UAA Driver Setup Wizard v7.3.00.30.090715
Installing Status:
Following information to show installing status.
The following information will tell you whether or not the components is installed successfully.
Current result:
SETUP LOG: DATE 7-29-2010 TIME 14:14:43
Installed components :
VIA HD Audio Codec Driver v7.3.00.30.090715
Fail to Installed components :
None
< Back
Next >
Cancel

8. Select restart your computer right now or later, and then lick **Finish**.

VIA HD Audio UAA Driver Setup Wizard v7.3.00.30.090715
Install Wizard Completed.
The Install Wizard has successfully installed VIA HD Audio UAA Driver Setup Program. Before you can use the program, you must restart your computer.
Yes, I want to restart my computer now.
No, I will restart my computer later.
Remove any disks from their drives, and then click Finish to complete setup.
< Back
Finish
Cancel

# 3.

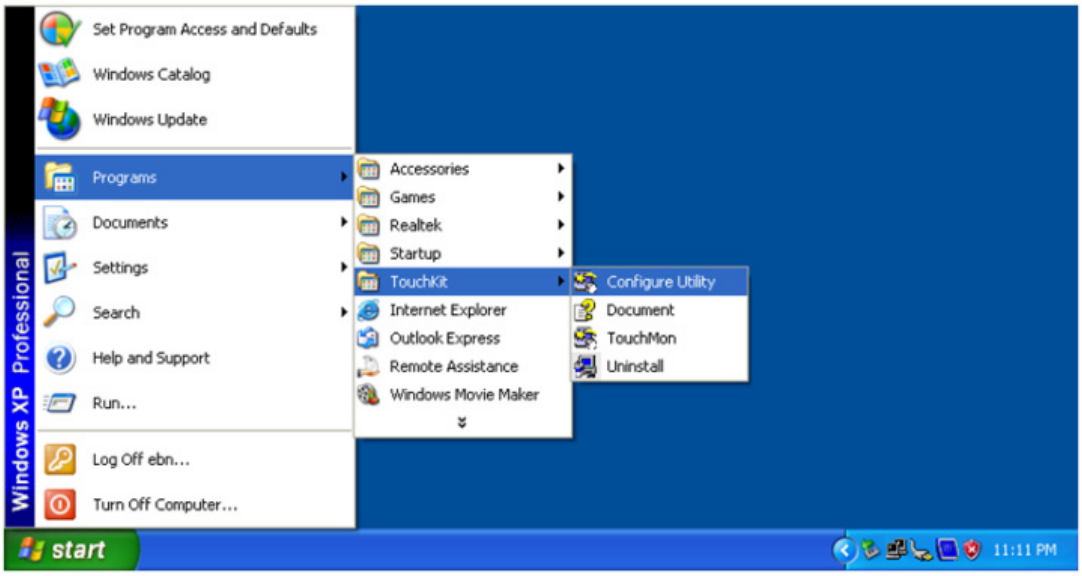
# Touchscreen Control Panel Quick Guide

## 3.1. Launch TouchKit Utility

There are two alternatives to launch **TouchKit**.

**Option 1:**

Under Microsoft Windows XP, click “**start**” menu and select “**Programs**”, under ”**TouchKit**” menu, click “**Configure Utility**”.

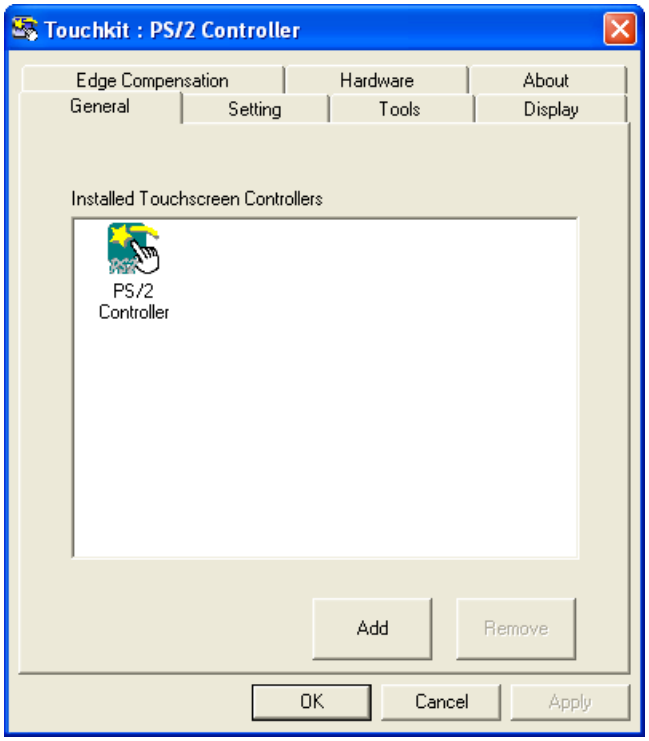



**Option 2:**

Click icon on the task bar to launch **TouchKit** utility.

## 3.2. General

The **General** tab in **Touchkit utility** shows all of **TouchKit** touchscreen controllers installed as below, including RS232, USB and PS2 interfaces.




**Add**

The function button is used for serial RS232 controllers only. Press this button to search the **TouchKit** serial controllers connected with the COM ports of the device. Whenever it finds a new **TouchKit** serial controller, a new serial controller icon object will be shown in the controller list window automatically.

USB **TouchKit** device supports plug and play, the icon object for USB controller will be shown in the controller list window automatically when the USB controller is connected with the USB port of the device. And, the icon object for the USB controller will disappear automatically as soon as the device was removed from the USB port of the device.

**TouchKit** PS2 driver support PS2 mouse and **TouchKit** touchscreen controller. It can works with both PS2 mouse and **TouchKit** touchscreen PS2 controller. After the **TouchKit** PS2 driver was

installed, this utility assumes the PS2 touchscreen controller exists and is always shown in the controller list window.

**Remove**

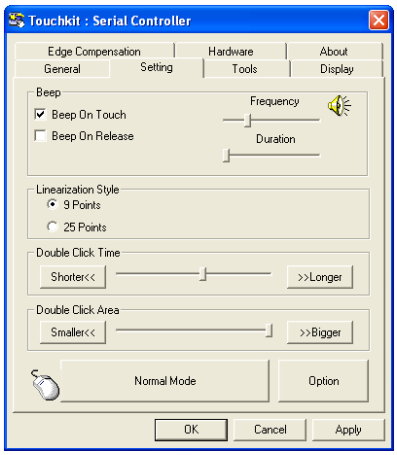
This function button is used for serial RS232 controllers only. This button will be grayed and disabled automatically when the selected controller in the controller list window is not RS232 type. Press to remove and uninstall the selected serial RS232 controller from the device. Then, this serial RS232 icon object in controller list window disappears automatically.

USB TouchKit device supports plug and play, the icon object for USB controller will be shown in the controller list window automatically when the USB controller is connected with the USB port of the device. And, the icon object for the USB controller will disappear automatically as soon as the device was removed from the system USB port.

**TouchKit** utility does not allow you to remove/uninstall the PS2 device driver dynamically. To uninstall the **TouchKit** PS2 driver, you need to go to Windows Device Manager to do un-installation. In addition, after PS2 un-installation, it needs to reboot the device to complete un-installation.

## 3.3. Settings

There are function buttons and check boxes in the **Settings** tab.



## Beep

### Beep On Touch

Check this check box to enable driver to generate a beep sound when touch touchscreen state is switched from untouched to touched state.

### Beep On Release

Check this check box to enable driver to generate a beep sound when touchscreen state is switched from touched state to untouched state.

### Frequency

Drag the slider to adjust this frequency to control the beep sound frequency generated by the driver.

### Duration

Drag the slider to adjust this duration to control the beep sound duration.

## Linearization Style

**TouchKit** utility provides you with both 9 points and 25 points calibration for linearization. You can select the suitable linearization type.

## Double Click Time

**Double Click Time** is used to set double click time. Change this value will affects the double click behavior for all of the mouse devices connected to the device. Two continuous clicks at the same area within this specified time period will be recognized as a double click event.

## Double Click Area

**Double click area** is used to set the double click area. Change this value will affects the double click behavior for all of the mouse devices connected to the device. Two continuous clicks with this specified area in the specified double click time will be recognized as a double click event.

## Mouse Emulation Mode

Change the emulation mode by pressing on this button.

### Normal Mode

**Normal** mode behaves mouse button down and mouse move. You can select this mode to select object, and dragging the object.

### Click On Touch

With this **Click On Touch** mode, the driver emulates a mouse click event when the touchscreen state was switched from un-touched state to touched state. Then, the driver always generate mouse move event and is tracking the touch position until the touchscreen state switched to un-touch state.

### Click On Release

With this **Click On Release** mode, the driver emulates a mouse click event when the touchscreen state was switched from touched state to un-touched state.

### Click On Touch without moving cursor

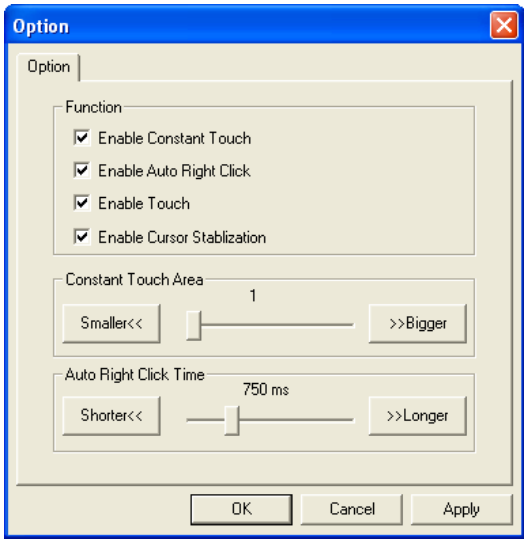
With this mode, the driver behaves similar as **Click On Touch** mode. The cursor does not move to the touch position except the first touch point.

### Click On Release without moving cursor

With this mode, the driver behaves similar as **Click On Release** mode. The cursor does not move to the touch position except the lift-off point.

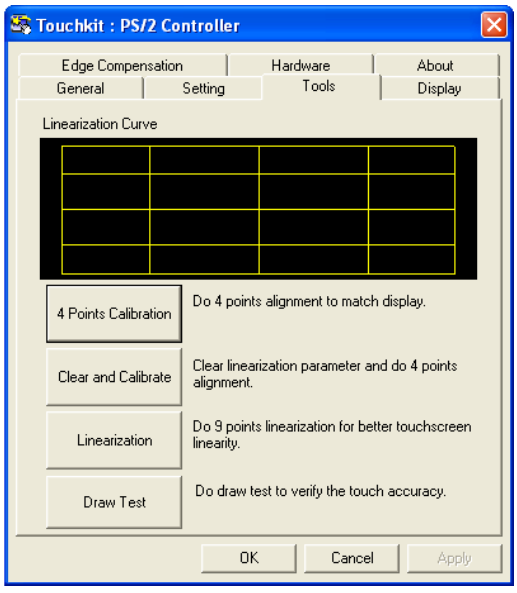
### Option

You can set configuration for some advanced functions with this option button. Press this button, a pop up property sheet window will be popped up and shown as below.




## 3.4. Tools

There are function buttons and check boxes in the **Tools** tab.

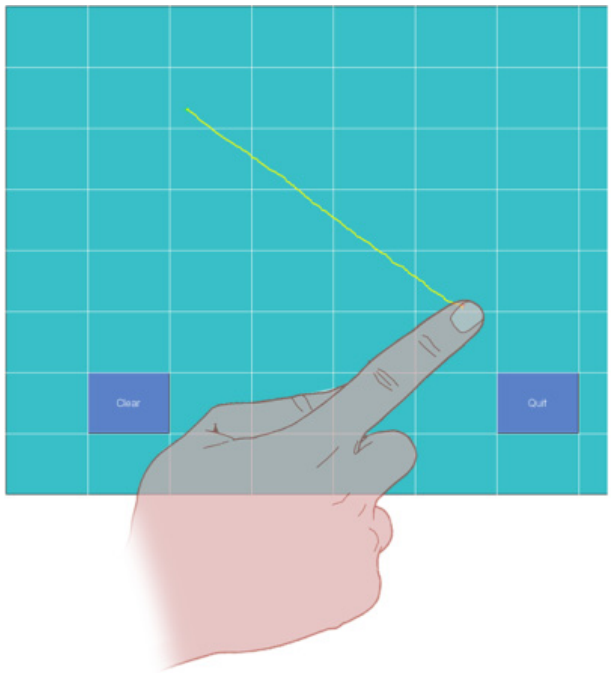


**4 Points Calibration, Clear and Calibration, and Linearization button**

Click the one of three these buttons and follow the instruction on the screen to do the screen calibration.

**Draw Test**

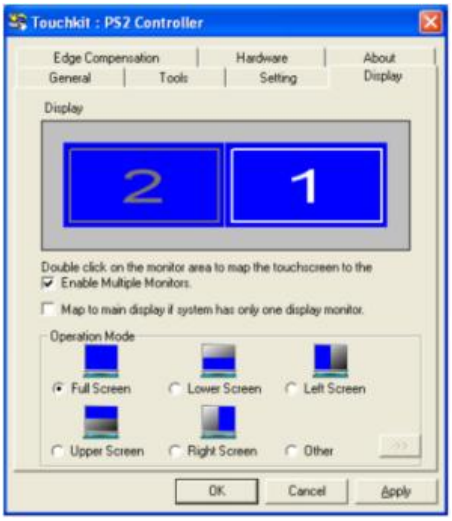
After clicking this button, you can do the drawing test by drawing any path on the screen as shown below.




You can remove all paths you drew by clicking **Clear**, or exit this screen by clicking **Quit**.

## 3.5. Display

**TouchKit** driver utility supports multiple monitor and display system. To work with multiple monitor system, you need to do proper configuration to map the touchscreen working area to the correct system display area. You can do such configuration with this property page shown as below,




Please follow below instructions to do the configuration:

**Enable multiple monitor**

Check this check box to enable multiple monitor support and uncheck it to disable multiple monitor support. When this function is disabled, the touchscreen will be mapped to the primary monitor automatically.

When this function is enabled, user can double click on the monitor area in the monitor geometry window to assign the monitor area where the touchscreen will be mapped. In other word, the touchscreen will work with the selected monitor. Then, the selected monitor area rectangle line will be changed to be white and the other monitor rectangles line will be grey.

**Map to main monitor when the system has only one monitor**
When the multiple monitor function was enabled, and the system has only one monitor.

Driver allows user to generate the mouse event for the primary monitor or not when the touchscreen which were not mapped to primary monitor. Check the check box to enable this function, then, the driver will generate the mouse event for the primary monitor even through the touchscreen was configured as other monitor mapping and multiple monitor function enabled.

**Operation Mode**
**TouchKit** driver support split display mode for those applications which do not map the touchscreen to the full screen of the monitor.

**Full screen**
The touchscreen will be mapped to the full screen of the specified monitor.

**Right screen**
The touchscreen will be mapped to the right half screen of the specified monitor.

**Left screen**
The touchscreen will be mapped to the left half screen of the specified monitor.

**Upper screen**
The touchscreen will be mapped to the upper half screen of the specified monitor.

**Lower screen**
The touchscreen will be mapped to the lower half screen of the specified monitor.

**Other operation mode**

**Quarter 1**

The touchscreen will be mapped to the first quarter area of the specified monitor display.

**Quarter 2**

The touchscreen will be mapped to the 2nd quarter area of the specified monitor display.

**Quarter 3**

The touchscreen will be mapped to the 3rd quarter area of the specified monitor display.

**Quarter 4**

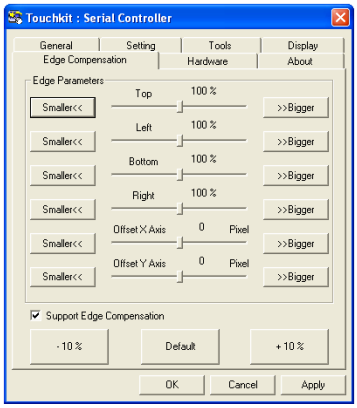
The touchscreen will be mapped to the 4th quarter area of the specified monitor display.

**Customized**

If the touchscreen needs to be mapped the area other than the above area, user can define the mapping area for application. With this mode, the driver does not correct the mapping area when the display resolution changed. It needs to do configuration setting again whenever the display resolution changed.

## 3.6. Edge Compensation

Edge Compensation property page contains functions of **Edge Compensation** for Top, Bottom, Left, Right, X Axis and Y Axis.



In some cases, if it is difficult to touch items at the edges of the touch panel, you can set adjustment to reach the edges of the screen image.

**Top**

If you set the Edge to "Smaller", **TouchKit** will reduce the horizontal position of the top edge. If you set the Edge to "Larger", **TouchKit** will extend the horizontal position of the top edge.

**Bottom**

If you set the Edge to "Smaller", **TouchKit** will reduce the horizontal position of the bottom edge. If you set the Edge to "Larger", **TouchKit** will extend the horizontal position of the bottom edge.

**Left**

If you set the Edge to "Smaller", **TouchKit** will reduce the vertical position of the right edge. If you set the Edge to "Larger", **TouchKit** will extend the vertical position of the left edge.

**Right**

If you set the Edge to "Smaller", **TouchKit** will reduce the vertical position of the right edge. If you set the Edge to "Larger", **TouchKit** will extend the vertical position of the right edge.

In some cases, cursor will be behind the finger when you touch the panel. If you can not see the cursor when you touch down the panel, you can set **X Axis** or **Y Axis** to move the cursor.

**Offset X Axis**

If you set the Offset X Axis to Smaller, cursor will be moved a pixel of X Axis to left.

If you set the Offset X Axis to Larger, cursor will be moved a pixel of

X Axis to right.

**Offset Y Axis**

If you set the Offset Y Axis to Smaller, cursor will be moved a pixel of Y Axis to top.

If you set the Offset Y Axis to Larger, cursor will be moved a pixel of X Axis to bottom.

**Edge Compensation Switch**

You can check **Support Edge Compensation** check box to enable/disable this function from left corner.

**Edge Compensation Button**

Click **+10%** or **-10%** button to adjust the smaller or larger of edge. If you click **+10%** button, the top, bottom, left and right edges will extend 10% of orientation to touch screen, and cursor will be moved 10 pixel of X and Y Axis to right and top.

If you click **-10%** button, the top, bottom , left and right edges will contract 10% of orientation to touch screen, and cursor will be moved 10 pixel of X and Y Axis to left and bottom.

Click **Default** button to resume to the default value.

# 4.

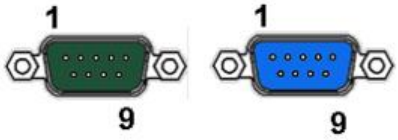
# I/O Definition

Please refer the detailed technical information about all I/O ports as followings.

## 4.1. Power Connector

| PIN | Description | PIN | Description |
|---|---|---|---|
| 1 | +19V | 3 | GROUND |
| 2 | +19V | 4 | GROUND |

## 4.2. Serial Port COM1/3

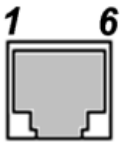



| PIN | Description | PIN | Description |
|---|---|---|---|
| 1 | DCD | 6 | DSR |
| 2 | RXD | 7 | RTS |
| 3 | TXD | 8 | CTS |
| 4 | DTR | 9 | RI / 5V /12V |
| 5 | GND | | |

## 4.3. COM 2 (10-Pin RJ50)

| PIN | Description | PIN | Description |
|---|---|---|---|
| 1 | RI/5V/12V | 6 | RX |
| 2 | DSR | 7 | GND |
| 3 | RTS | 8 | CTS |
| 4 | GND | 9 | DTR |
| 5 | TX | 10 | DCD |

## 4.4. Cash Drawer




### Connector

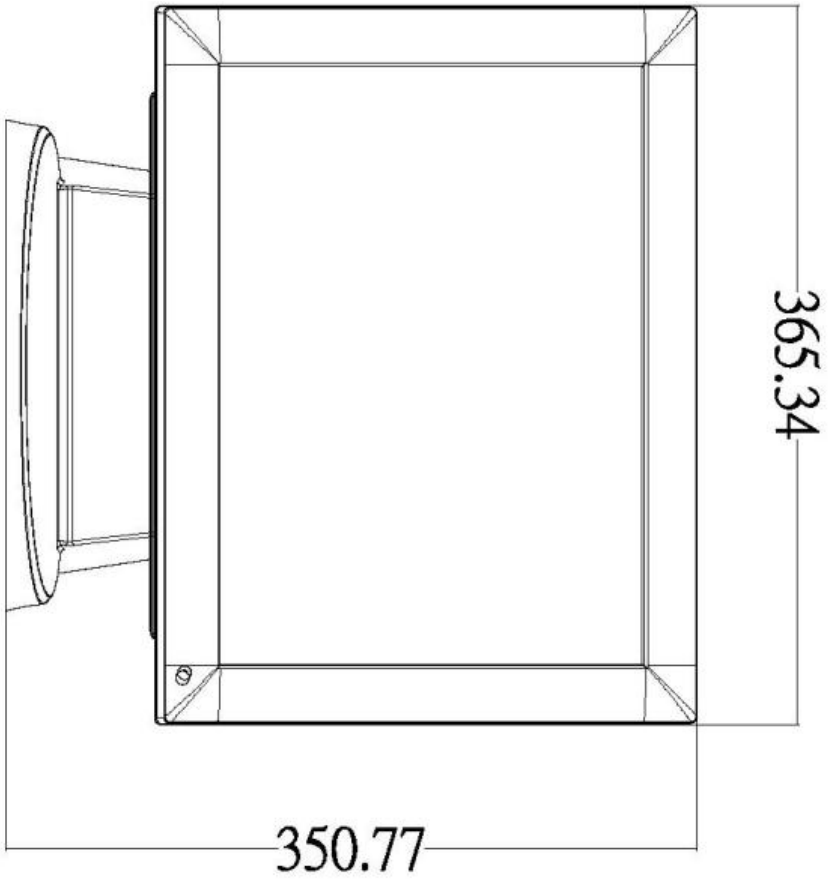
| PIN | Description | PIN | Description |
|---|---|---|---|
| 1 | GND | 4 | P24V |
| 2 | D_OUT0 | 5 | D_OUT1 |
| 3 | D_IN | 6 | GND |

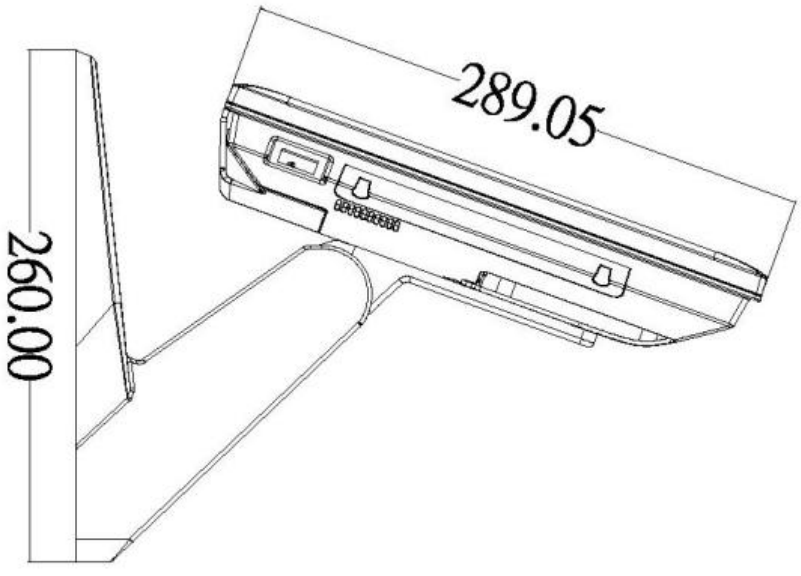
### Cash Drawer Control

| Status | Address | Value |
|---|---|---|
| Open | 280H | Bit 4 = 0 |
| Close | 280H | Bit 4 = 1 |
| Read Status | 281H | Bit 0 = 0/1 |

# 5.

## Specification



| | |
|---|---|
| **Main Board** | |
| CPU | Intel® Atom™ Processor D525 |
| Chipset | Intel® ICH8-M |
| System Memory | 1 x 204 Pin DDR3 SO-DIMM Socket, up to 4GB |
| Thermal Solution | Fan-less |
| OS | Windows® XP/ XPe/ WES, WEPOS, POSReady, Windows® 7 *, Linux*, |
| **Display** | |
| TFT LCD Size | 15” |
| Brightness | 250 nits |
| Resolution | 1024 x 768 |
| Touch Screen | 5-wire Resistive Type |
| Tilt Angle | 0°~90° |
| **Storage Device** | |
| HDD | 1 x 2.5" SATA |
| Compact Flash | 1 x slot compact flash type II |
| **I/O Ports** | |
| Serial | 6 x RS-232 Pin9 ,w/ RI/5V/12V Selectable by BIOS<br>COM 1 : RS-232/422/485, DB-9<br>COM 2 : RS232 , RJ50 10 pins<br>COM 3 : RS232 , DB-9<br>COM 4 : RS232 , Internal pin header<br>COM 5 : RS232 , Internal 15-Pin header with PS/2<br>COM 6 : RS232 , Internal pin header for Customer Display |
| VGA | 1 x VGA |
| USB | 4 x USB 2.0 |
| LAN | 2 x Gigabit Ethernet by RJ-45, Support Wake on LAN |
| Cash Drawer | 1 x RJ-11 (Power Pin 24V) |
| **Others** | |
| Wall mount | Support VESA Mount |
| Power Input | External adapter, 135W, 19VDC input |
| Color | Black |
| Material | Plastic / Aluminum |
| EMC& Safety Compliance | FCC / WEEE / RoHS / |
| Weight | 7.8 Kg (appox.) |
| Dimension | 365 W x350 Hx260 D(mm) (appox.) |
| Operation Temperature | 0°C ~ 35°C |
| Storage Temperature | -20° ~ 60°C |
| Storage Humidity | 20 – 85% RH, non-condensing |
| Audio | 2W speaker x 2 |

* Please contact supplier for detail infomation.

| Optional Accessories |
| --- |
| Customer display: VFD Attached, 20 columns x 2 lines, RS-232 Type |
| MSR-Front Type, 3 Tracks, PS/2 Type |
| MSR-Side Type, 3 Tracks, PS/2 Type & Finger Print, USB Type |
| MSR-Side Type, 3 Tracks, PS/2 Type & i-Button, PS/2 Type |
| 12.1” 2nd Display |

**Specifications are subject to change without notice.**